Paragraph at page 163 starting at line 12

 \mathcal{B}^{2}

As a result, the following compounds were found to have a corrected mortality of 90% or more: compound Nos. 13, 18, 32, 54, 55, 57, 127, 136, 230, 242, 258, 464, 484, 512, 524, 737, 785, 794, 795, 804, 805, 821, 989, 990, 1009, 1095, 1110, 1127, 1158, 1189, 1204, 1220, 1221, 1247, 1249, 1251, 1255, 1267, 1269, 1271, 1275, 1303, 1306, 1313, 1320, 1414, 1429, 1473, 1505, 1548 and 1549.

IN THE CLAIMS:

Please amend claim 1 as follows (see the attached Appendix for the changes made to effect the below claim):

attores states

1. A heterocyclic dicarboxylic acid diamide derivative represented by the general formula (I):

$$\begin{array}{c|c} Xn & Z^1 \\ \hline NR^1R^2 \\ \hline NR^1R^2$$

{wherein R^1 , R^2 and R^3 , which may be the same or different, are hydrogen atoms, (C_3-C_6) cycloalkyl groups, halo (C_3-C_6) cycloalkyl groups or $-A^1-(R^4)$ r (wherein A^1 is a (C_1-C_8) alkylene group, a (C_3-C_6) alkenylene group or a (C_3-C_6) alkynylene group, R^4 , which may be the same or different, are hydrogen atoms; halogen atoms; cyano groups; nitro groups; halo (C_1-C_6) alkyl groups; (C_3-C_6) cycloalkyl groups; halo (C_3-C_6) cycloalkyl groups;



 C_6)cycloalkyl groups; (C_1-C_6) alkoxycarbonyl groups; di (C_1-C_6) alkoxyphosphoryl groups whose (C₁-C₆)alkoxy groups may be the same or different; di(C₁-C₆)alkoxythiophosphoryl groups whose (C₁-C₆)alkoxy groups may be the same or different; diphenylphosphino groups; diphenylphosphono groups; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkyl groups, halo (C_1-C_6) C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁- C_6)alkylsulfinyl groups, halo(C_1 - C_6)alkylsulfinyl groups, (C_1 - C_6)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; or -A²-R⁵ (wherein A² is -O-, -S-, -SO-, -SO₂-, -N(R⁶)- (wherein R⁶ is a hydrogen atom; a (C₁-C₆)alkylcarbonyl group; a halo(C₁-C₆)alkylcarbonyl group; a (C₁-C₆)alkoxycarbonyl group; a phenylcarbonyl group; a substituted phenylcarbonyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C_1 - C_6)alkyl groups, (C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a phenyl(C₁-C₄)alkoxycarbonyl group; a substituted phenyl(C₁-C₄)alkoxycarbonyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-



 C_6)alkyl groups, halo(C_1 - C_6)alkyl groups, (C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁- C_6)alkylsulfonyl groups; a (C_1-C_6) alkylsulfonyl group; or a halo (C_1-C_6) alkylsulfonyl group), -C(=O)- or $-C(=NOR^7)$ - (wherein R^7 is a hydrogen atom; a (C_1-C_6) alkyl group; a halo(C₁-C₆)alkyl group; a (C₃-C₆)alkenyl group; a halo(C₃-C₆)alkenyl group; a (C₃-C₆)alkynyl group; a cyclo(C₃-C₆)alkyl group; a phenyl(C₁-C₄)alkyl group; or a substituted phenyl(C₁-C₄)alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C₁- C_6)alkyl groups, halo(C_1 - C_6)alkyl groups, (C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups), and R⁵ is a hydrogen atom; a (C₁-C₆)alkyl group; a halo(C₁-C₆)alkyl group; a (C₃-C₆)alkenyl group; a halo(C₃-C₆)alkenyl group; a (C₃-C₆)alkynyl group; a halo(C₃-C₆)alkynyl group; a (C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkyl group; a (C_1-C_6) alkoxy (C_1-C_6) alkyl group; a (C_1-C_6) alkylthio (C_1-C_6) alkyl group; a formyl group; a (C₁-C₆)alkylcarbonyl group; a halo(C₁-C₆)alkylcarbonyl group; a (C₁-C₆)alkoxycarbonyl group; a mono(C₁-C₆)alkylaminocarbonyl group; a di(C₁-C₆)alkylaminocarbonyl group whose (C₁-C₆)alkyl groups may be the same or different; a mono(C₁-C₆)alkylaminothiocarbonyl group; a di(C₁-C₆)alkylaminothiocarbonyl group whose (C₁-C₆)alkyl groups may be the same or different; a di(C₁-C₆)alkoxyphosphoryl group whose (C₁-C₆)alkoxy groups may be the same or different; a di(C₁-C₆)alkoxythiophosphoryl group whose (C₁-C₆)alkoxy groups may be the same or different; a phenyl group; a substituted phenyl group

having one or more substituents which may be the same or different and are



selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁- C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1 - C_6)alkylthio groups, halo(C_1 -C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a phenyl(C₁-C₄)alkyl group; a substituted phenyl(C₁-C₄)alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C1-C6)alkyl groups, halo(C1-C6)alkyl groups, (C1-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups), and r is an integer of 1 to 4),

provided that R¹ and R² are not hydrogen atoms at the same time,
R¹ and R² may form a 4 to 7 membered ring by combining to each
other, in which the ring may contain the same or different 1 to 3 hetero atoms
selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom,

Het is a heterocyclic group represented by any of the following formulas Q1 to Q22:

$$\mathcal{B}^{3} \underset{\text{Q1}=}{\overset{Xn}{\underset{5}{\overset{4}{\underset{1}{\overset{3}{\underset{1}{\underset{(0)}{\sum}}}}}}}} 1$$

$$Q3 = \begin{array}{c} Xn \\ 2 \\ 1 \\ 6 \\ 5 \end{array}$$

$$Q4 = \begin{cases} Xn & \text{(O) p} \\ 1 & \text{(N) 2} \\ 5 & \text{(A) 3} \end{cases}$$

Q5=
$$\binom{Xn}{6} = \binom{5}{1} = \binom{4}{1} = \binom{5}{1} = \binom{4}{1} = \binom{5}{1} = \binom{4}{1} = \binom{5}{1} = \binom{5}{1} = \binom{4}{1} = \binom{5}{1} = \binom{4}{1} = \binom{5}{1} =$$

Q6=
$$\frac{Xn}{1}$$
 $\frac{6}{1}$ $\frac{5}{1}$ $\frac{5}{1}$

$$Q9 = \begin{array}{c} Xn & (O) p \\ Xn & I & I \\ N & 3 \\ (O) & 1 & 6 \end{array} \qquad Q10 = \begin{array}{c} Xn & (O) p \\ Xn & I & I \\ N & 2 \\ N & 3 \end{array} \qquad Q11 = \begin{array}{c} Xn & 4 & 3 \\ N & 2 & 3 \\ N & 3 & 2 \\ N & 3 & 3 \end{array}$$

$$Q11 = 5$$

$$W_1$$

$$Q12 = 1W$$

$$5$$

$$4$$

$$Q13 = \begin{array}{c} Xn & 1 \\ 5 & 4 & 3 \end{array}$$

$$Q14 = \begin{array}{c} Xn & 3 & 4 \\ 2N & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & & \\$$

$$Q15 = 1 \text{W} \underbrace{\begin{array}{c} 2 \\ 1 \text{W} \\ 5 \end{array}}_{4}$$

$$Q17 = 2N \frac{1}{3} \frac{5}{4}$$

$$Q18 = 2 \sqrt{\frac{1}{W}} \sqrt{\frac{5}{4}}$$

$$Q19 = 2 \times 10^{-3} \text{ M}$$

$$Q17 = 2N$$
 $Q18 = 2N$
 $Q18 = 2N$
 $Q19 = 2N$
 $Q19 = 2N$
 $Q20 = 2N$
 $Q20 = 2N$
 $Q19 = 2N$

$$Q21 = \begin{array}{c} Xn & \frac{3}{W} & 4 \\ 2N & \frac{1}{N} & 5 \end{array}$$

$$Q22 = \begin{array}{c} Xn & \frac{3}{N} & \frac{4}{4} \\ 2N & \frac{1}{N} & \frac{4}{5} \end{array}$$

$$Q22 = \begin{array}{c} Xn & 3 \\ N & 1 \end{array}$$





(wherein X, which may be the same or different, are halogen atoms; cyano groups; nitro groups; (C₃-C₆)cycloalkyl groups; halo(C₃-C₆)cycloalkyl groups; tri(C₁-C₆)alkylsilyl groups whose (C₁-C₆)alkyl groups may be the same or different; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms. (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; or -A³-R⁸ [wherein A³ is -O-, -S-, -SO-, - SO_{2-} , $-N(R^6)$ — (wherein R^6 is as defined above), -C(=O)—, $-C(=NOR^7)$ — (wherein R⁷ is as defined above), a (C₁-C₆)alkylene group, a halo(C₁-C₆)alkylene group, a (C₂-C₆)alkenylene group, a halo(C₂-C₆)alkenylene group, a (C₂- C_6)alkynylene group or a halo(C_3 - C_6)alkynylene group, and R^8 is as follows: (1) when A^3 is $-O_-$, $-S_-$, $-SO_-$, $-SO_2$ or $-N(R^6)$ (wherein R^6 is as defined above), then R⁸ is a halo(C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkenyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl



contd 123

groups: a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; or -A⁴-R⁹ (wherein A⁴ is a (C₁-C₆)alkylene group, a halo(C₁-C₆)alkylene group, a (C₃-C₆)alkenylene group, a halo(C₃- C_6)alkenylene group, a (C_3-C_6) alkynylene group or a halo (C_3-C_6) alkynylene group, and R⁹ is a hydrogen atom; a halogen atom; a (C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkyl group; a (C₁-C₆)alkoxycarbonyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁- C_6)alkylsulfonyl groups and halo(C_1 - C_6)alkylsulfonyl groups; or $-A^5$ - R^{10} (wherein A^5 is $-O_{-}$, $-S_{-}$, $-SO_{-}$, $-SO_{2}$ or -C(=O), and R^{10} is a $(C_{1}-C_{6})$ alkyl group; a halo $(C_{1}-C_{6})$ C₆)alkyl group; a (C₃-C₆)alkenyl group; a halo(C₃-C₆)alkenyl group; a (C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- contd B3

 C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups)),

(2) when A^3 is -C(=O) or $-C(=NOR^7)$ (wherein R^7 is as defined above), then R^8 is a hydrogen atom; a (C_1-C_6) alkyl group; a halo (C_1-C_6) alkyl group; a (C_2-C_6) alkenyl group; a halo(C₂-C₆)alkenyl group; a (C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkyl group; a (C_1-C_6) alkoxy group; a (C_1-C_6) alkylthio group; a mono (C_1-C_6) alkylamino group; a di(C₁-C₆)alkylamino group whose (C₁-C₆)alkyl groups may be the same or different; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁- C_6)alkyl groups, halo(C_1 - C_6)alkyl groups, (C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a phenylamino group; a substituted phenylamino group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl

contd.

groups, and

(3) when A^3 is a (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a (C_2-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group, a halo (C_1-C_6) alkylene group (C_1-C_6) alkylene group C₆)alkenylene group, a halo(C₂-C₆)alkenylene group, a (C₂-C₆)alkynylene group or a halo(C₃-C₆)alkynylene group, then R⁸ is a hydrogen atom; a halogen atom; a (C₃-C₆)cycloalkyl group; a halo(C₃-C₆)cycloalkyl group; a (C₁-C₆)alkoxycarbonyl group; a tri(C₁-C₆)alkylsilyl group whose (C₁-C₆)alkyl groups may be the same or different; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups; a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; or $-A^6-R^{11}$ (wherein A^6 is -O-, -S-, -SO- or - SO_{2-} , and R^{11} is a (C_3-C_6) cycloalkyl group; a halo (C_3-C_6) cycloalkyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1 - C_6)alkylsulfonyl groups and halo(C_1 - C_6)alkylsulfonyl groups; a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen



atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁- C_6)alkoxy groups, (C_1 - C_6)alkylthio groups, halo(C_1 - C_6)alkylthio groups, (C_1 -C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; or -A⁷-R¹² (wherein A⁷ is a (C₁-C₆)alkylene group, a halo(C₁-C₆)alkylene group, a (C₂-C₆)alkenylene group, a halo(C₂- C_6)alkenylene group, a (C_2-C_6) alkynylene group or a halo (C_3-C_6) alkynylene group, and R¹² is a hydrogen atom; a halogen atom; a (C₃-C₆)cycloalkyl group; a halo(C₃- C_6)cycloalkyl group; a (C_1-C_6) alkoxy group; a halo (C_1-C_6) alkoxy group; a (C_1-C_6) alkoxy C_6)alkylthio group; a halo(C_1 - C_6)alkylthio group; a (C_1 - C_6)alkylsulfinyl group; a halo(C_1 - C_6)alkylsulfinyl group; a (C_1 - C_6)alkylsulfonyl group; a halo(C_1 - C_6)alkylsulfonyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁- C_6)alkyl groups, halo(C_1 - C_6)alkyl groups, (C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a phenoxy group; a substituted phenoxy group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁-C₆)alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a phenylthio group; a substituted phenylthio group having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C₁- C_6)alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1 - C_6)alkylthio groups, halo(C_1 -C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-



C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C1-C6)alkyl groups, halo(C1- C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁- C_6)alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups))], and n is an integer of 0 to 3,

X may form a condensed ring by combining together with the adjacent atoms in the heterocyclic ring, and said condensed ring may have one or more substituents, which may be the same or different, and are selected from halogen atoms: (C₁-C₆)alkyl groups; halo(C₁-C₆)alkyl groups; (C₁-C₆)alkoxy groups; halo(C₁- C_6)alkoxy groups; (C_1 - C_6)alkylthio groups; halo(C_1 - C_6)alkylthio groups; (C_1 - C_6)alkylsulfinyl groups; halo(C_1 - C_6)alkylsulfinyl groups; (C_1 - C_6)alkylsulfonyl groups; halo(C₁-C₆)alkylsulfonyl groups; phenyl group; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C_1-C_6) alkoxy groups, halo(C_1 - C_6)alkoxy groups, (C_1 - C_6)alkylthio groups, halo(C_1 - C_6)alkylthio groups, (C_1 -C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; heterocyclic groups; and substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups,

W is O, S or N-R¹³ (wherein R¹³ is a (C₁-C₆)alkyl group; a halo(C₁-



 C_6)alkyl group; a (C_3-C_6) alkenyl group; a halo (C_3-C_6) alkenyl group; a (C_3-C_6) alkynyl group; a halo (C_3-C_6) alkynyl group; a (C_1-C_6) alkoxy group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups; a phenyl (C_1-C_6) alkyl group; or a substituted phenyl (C_1-C_6) alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, and p and q, which may be the same or different, are integers of 0 to 1),

B¹, B², B³ and B⁴, which may be the same or different, are carbon atoms or nitrogen atoms,

Y, which may be the same or different, are halogen atoms; cyano groups; nitro groups; halo(C_3 - C_6)cycloalkyl groups; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1 - C_6)alkyl groups, halo(C_1 - C_6)alkyl groups, halo(C_1 - C_6)alkoxy groups, halo(C_1 - C_6)alkylthio groups, halo(C_1 - C_6)alkylsulfinyl groups, halo(C_1 - C_6)alkylsulfinyl groups, halo(C_1 - C_6)alkylsulfonyl groups and halo(C_1 - C_6)alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1 - C_6)alkyl groups, halo($C_$



 C_6)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo (C_1-C_6) alkylthio groups, (C_1-C_6) alkylsulfinyl groups, halo (C_1-C_6) alkylsulfinyl groups, (C_1-C_6) alkylsulfonyl groups and halo (C_1-C_6) alkylsulfonyl groups; or A^3-R^8 (wherein A^3 and R^8 are as defined above), and m is an integer of 1 to 5.

Y may form a condensed ring by combining together with the adjacent carbon atoms in the aromatic ring, and said condensed ring may have one or more substituents, which may be the same or different, and are selected from halogen atoms; (C₁-C₆)alkyl groups; halo(C₁-C₆)alkyl groups; (C₁-C₆)alkoxy groups; halo(C₁-C₆)alkoxy groups; (C₁-C₆)alkylthio groups; halo(C₁-C₆)alkylthio groups; (C₁-C₆)alkylsulfinyl groups; halo(C₁-C₆)alkylsulfinyl groups; (C₁-C₆)alkylsulfonyl groups; halo(C₁-C₆)alkylsulfonyl groups; phenyl group; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6) alkyl groups, halo (C_1-C_6) alkyl groups, (C_1-C_6) alkoxy groups, halo(C₁-C₆)alkoxy groups, (C₁-C₆)alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups; heterocyclic groups; and substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C₁-C₆)alkyl groups, halo(C₁-C₆)alkyl groups, (C_1-C_6) alkoxy groups, halo (C_1-C_6) alkoxy groups, (C_1-C_6) alkylthio groups, halo(C₁-C₆)alkylthio groups, (C₁-C₆)alkylsulfinyl groups, halo(C₁-C₆)alkylsulfinyl groups, (C₁-C₆)alkylsulfonyl groups and halo(C₁-C₆)alkylsulfonyl groups, and each of Z^1 and Z^2 is an oxygen atom or a sulfur atom,

provided that:

(1) when Het is Q2, Q6, Q7 or Q9 and B1, B2, B3 and B4 are carbon atoms at the

contd. B3

same time, then Ym is other than 3-chloro-2-methyl group, 3-chloro-2,6-diethyl group, 5-chloro-2-methyl group, 2,6-diethyl group, 4-chloro-2-fluoro group and 2-ethyl-6-methyl group,

- (2) when Het is Q4 and B¹, B², B³ and B⁴ are carbon atoms at the same time, then Ym is other than 2,5-dichloro group, 2,4-difluoro group, 2,6-difluoro group, 3-chloro-2-methyl group, 5-chloro-2-methyl group, 5-fluoro-2-methyl group, 2,6-dimethyl group, 2,6-diethyl group, 2-ethyl-6-methyl group, 2-methoxy-5-nitro group, 2-methoxy-5-methyl group, 2,6-diethoxy group, 3-bromo-2-methyl group, 3-fluoro-2-methyl group, 3-iodo-2-methyl group, 3-cyano-2-methyl group, 3-difluoromethoxy-2-methyl group, 5-chloró-2-ethyl group, 2,5-dimethyl group, 2,3-dichloro group, 3-chloro-2,6-diethyl group, 4-trifluoromethyl group, 3-methoxycarbonyl-2-methyl group, 3-trifluoromethyl-2-methyl group, 3,5-dichloro-2,6-diethyl group, 3,4-dichloro group, 3-(methoxycarbonylmethyloxy)-2-methyl group, 2-methyl-3-nitro group and 4-trifluoromethoxy group,
- (3) when Het is Q9, R² and R³ are hydrogen atoms at the same time, Xn is a 2-phenyl group, R¹ is a n-propyl group or an i-propyl group and B¹, B², B³ and B⁴ are carbon atoms at the same time, then Ym is other than 4-pentafluoroethyl-2-methyl group, and
- (4) when Het is Q10 and B¹, B², B³ and B⁴ are carbon atoms at the same time, then Ym is other than 5-chloro-2-methyl group, 5-fluoro-2-methyl group, 2,5-dimethyl group and 2,6-diethyl group, and
- (5) when Het is Q10 and B¹, B², B³ and B⁴ are carbon atoms at the same time, Xn is other than 5,6-dimethyl group }.